AIBIG's Director Biography

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The Core of Artificial Intelligence Research at AIBIG

Dr. Muhammad Akmal Remli serves as the Director of the Institute for Artificial Intelligence and Big Data (AIBIG) at Universiti Malaysia Kelantan (UMK). The AIBIG Institute is a Center of Excellence (COE) specializing in research, development, and training in Artificial Intelligence (AI) and Big Data.Dr. Akmal became a fellow researcher at AIBIG in early 2020, and in 2021, he assumed the role of leading AIBIG. Additionally, he holds the position of senior lecturer at the Faculty of Data Science and Computing, UMK.

He earned his Master's and PhD degrees in Computer Science from Universiti Teknologi Malaysia in 2014 and 2018, respectively. Subsequently, he worked at Universiti Malaysia Pahang from 2018 to 2020. In 2016, he undertook a research attachment at The Bioinformatics, Intelligent Systems, and Educational Technology (BISITE) Research Group at the University of Salamanca, Spain, focusing on cancer bioinformatics. His primary research interests encompass artificial intelligence, data science, business intelligence, and computational systems biology. He has authored numerous scientific research papers indexed by Scopus and Clarivate Web of Science, including publications in journals such as Expert Systems with Applications (ESWA) and Engineering Applications of Artificial Intelligence (EAAI).

Recently, he has actively participated in multiple projects utilizing generative AI in Bioinformatics for computational biomarker discovery and generating synthetic cells. He received a high-impact research grant of RM120,000 from the Sultan Mizan Antarctic Research Foundation (YPASM) to conduct AI research in the Polar regions, specifically the Antarctic and Arctic. He serves as the principal investigator for this research and collaborates with various local and international institutes. Another recent achievement in his AI work is receiving an international grant from the France-Malaysia Collaboration Programme for Joint Research 2023 (MyTIGER). This two-year joint research program between Malaysia (UMK) and France (Universite Paris Dauphine) focuses on generative AI for creating new synthetic cells in genomics data. It is funded at RM90,000, starting from 2023 until 2025.

Additionally, Akmal is currently concentrating on developing algorithms based on the transformer model to predict stock price movements. The recent advancements in generative AI using the transformer model show promise in the field of the stock market. As a result of this research, he was awarded a Ministry of Higher Education Fundamental Research Grant Scheme (FRGS) worth RM70,000, with a duration of two years. He also actively collaborates with various partners and collaborators from industries and academic institutions, both locally and globally. This collaboration includes editorial journals, scientific conference committees, publications, research work, and as a visiting research fellow at the Centre for Research, Innovation, Development, and Entrepreneurship (CRIDE) LTD, UK.